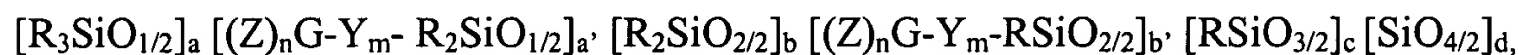


In the Claims:

1. (Previously Presented) Compositions, which can be crosslinked by radiation to give elastomers or elastomeric coatings, which comprise:

- (a) high-molecular weight siloxanes with multiple (meth)acrylate functional groups; and
- (b) reinforcing fillers selected from the group consisting of silicone resins and silicone dioxide fillers,

wherein the siloxanes (a) have the general structure:



wherein

R is a linear or branched, alkyl, alkenyl or aryl radical which may be substituted with halogen atoms,

G(Z)_n is a (meth)acrylfunctional radical, wherein G is a (n+1) valent radical derived from a hydroxy compound with 3 to 10 carbon atoms, 1 to 6 hydroxy groups, 0 to 1 carboxylic ester groups and 0 to 2 ether linkages, which may optionally be unsaturated or alkoxylated with ethylene oxide, propylene oxide or mixtures thereof and wherein the organic groups bearing the acrylate radical(s) are attached to the siloxane framework by way of Si-C bonds,

Y is -OOC-CHR'-CH₂- or -OOC-CHR' (CH₃)-,

m is 0 or 1,

n is 1-6,

Z is -OC-CR'=CH₂ and may additionally comprise carboxylic acid radicals free of double bond,

R' is hydrogen or methyl,

a is 0-20,

a' is 2-10,

b is 800-10000,

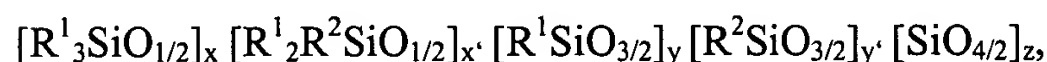
b' is 0-40, and

c is 0-40,

d is 0-40,

with the proviso that the polymer contains more than two (meth)acrylate groups; and

wherein the silicone resins of component (b) have the general structure:



wherein

R¹ is a monovalent alkyl or alkenyl radical with 1 to 4 carbon atoms, phenyl, hydroxy, methoxy or ethoxy,

R² is a (meth)acrylated hydroxyalkyl radical with 1 to 4 carbon atoms in the alkyl group,

having a average molecular weight of 500 to 100,000, with the proviso that $(x+x')/(y+y'+z)$ is 0.5 to 1.5 and $(y+y')/z$ is 0 to 0.4.

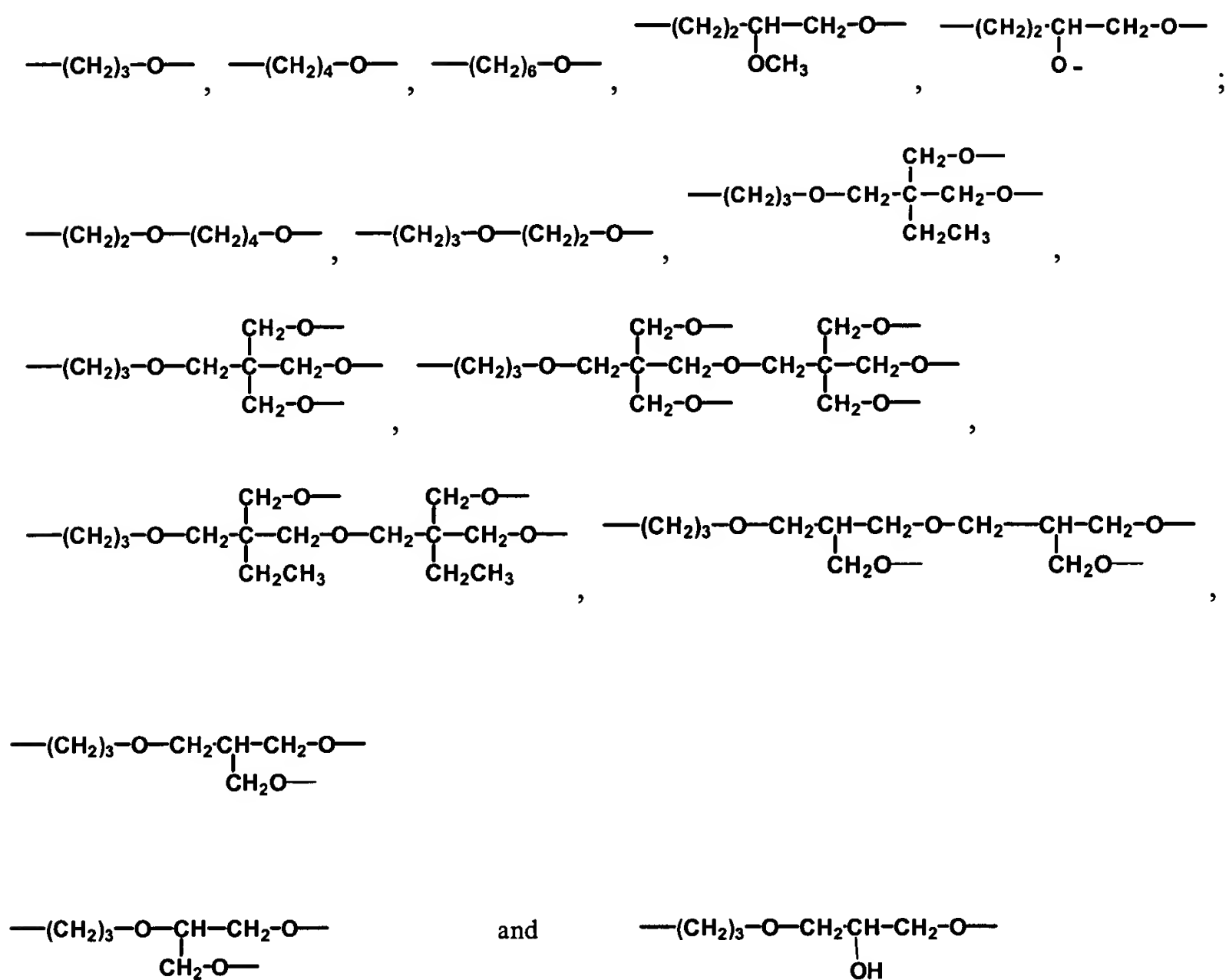
2. (Original) The compositions according to claim 1 wherein c and d is 0, a is 0 to 2, a' is 0 to 2, and b is 2100-5000.

3. (Original) The compositions according to claim 1 wherein R is an alkyl radical with 1-8 carbon atoms, a fluorinated alkyl radical with 1-8 carbon atoms, vinyl or phenyl.

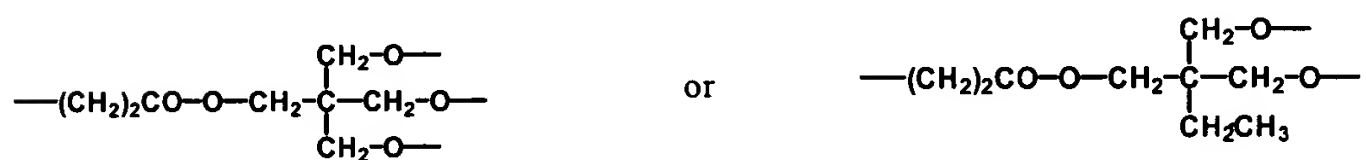
4. (Original) The compositions according to claim 1 wherein R is methyl.

5. (Original) The compositions according to claim 1 wherein Z is $-C(O)-CH=CH_2$.

6. (Previously Presented) The compositions according to claim 1 wherein m is 0 and G is selected from the group of



7. (Original) The compositions according to claim 1 wherein m is 1 and -Y-G- is



8. (Original) The compositions according to claim 1 wherein the reinforcing filler is selected from the group consisting of fumed silica, precipitated silica, hydrosols and silicates.

9. (Cancelled)
10. (Currently amended) The compositions according to claim 1 ~~claim 9~~ wherein y and y' are 0, R¹ is methyl, R² is acryloxyethyl or acryloxypropyl, the ratio (x+x')/z is 0.7 to 0.9 and the average molecular weight of the resin is 500 to 10000.
11. (Currently amended) The compositions according to claim 1 ~~claim 9~~ wherein y and y' are 0, R¹ is methyl, hydroxy, methoxy or alkoxy, the ratio (x+x')/z is 0.7 to 0.9, the average molecular weight of the resin is 500 to 10000, with the proviso that the resin contains less than 4% by weight, of silicon-bound hydroxy or alkoxy groups.
12. (Original) The compositions according to claim 1 wherein the reinforcing filler has been treated with methoxytrimethylsilane, ethoxytrimethylsilane, dimethyldichlorosilane, chlorotrimethylsilane, octamethylcyclotetrasiloxane, hexamethyldisilazane, silanol fluids, gamma-aminopropyltrimethoxysilane or gamma-methacryloxypropyltrimethoxysilane.
13. (Original) The compositions according to claim 1 wherein the reinforcing filler is a fumed or precipitated silica, which has been treated with a hydrophobizing silane agent.
14. (Original) The compositions according to claim 1, which further comprise one or more additives selected from the group consisting of extending fillers, catalysts, photoinitiators, photosensitizers, crosslinkers, co-curing additives, adhesion promoters, pigments and dyes.
15. (Original) The composition according to claim 14, wherein amount of extending filler is from about 1 to about 150 weight parts per 100 parts of siloxane (a) and reinforcing filler.
16. (Original) The composition according to claim 14 wherein the amount of catalysts, photoinitiators, photosensitizers, crosslinkers, co-curing additives, adhesion promoters, pigments or dyes is from about 0.1 to about 15 weight parts per 100 parts of the mixture of siloxane (a) and reinforcing filler (b).

17. (Original) The compositions according to claim 15 where the extending filler is selected from the group consisting of carbonates, hydrogen carbonates, oxides and hydroxides of calcium, magnesium or barium, talc, clay, titanium dioxide, barium zirconate, chalk, quartz, diatomaceous earth, polymeric beads/powders, iron oxide, metal powders, carbon black, metal salts, thermal conductive agents, magnetic and radio masking agents.
18. (Original) The compositions according to claim 15 which comprise about 20 to about 50 weight parts of extending filler per 100 parts of siloxane (a) and reinforcing filler (b).
19. (Original) The compositions according to claim 16 which comprise from about 1 to about 10 weight parts of photoinitiators per 100 parts siloxane (a) and reinforcing filler (b).
20. (Original) A process for preparing elastomers or elastomeric coatings which comprises irradiating the compositions according to claim 1.
21. (Original) Conformal coatings and pressure-sensitive adhesives obtained by the irradiation of the compositions of claim 1.
22. (Original) A method of high-speed radiation curing of calendared stock to give elastomeric coatings which comprises the compositions according to claim 1 with electrom beams or UV light.

Claims 23-67 (Cancelled).